Approved for use through 9/30/2007, OM8 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

	,				Complete If Know	n		
	Substitu	te for form 1	449A/PTO	Application Number	10/522,068			
·			*	Filing Date	January 21, 2005			
INFORMATION DISCLOSURE		First Named Inventor	Hayda N. G. Wadley	Hayda N. G. Wadley				
STA	TEME	NT BY	PPLICANT	Art Unit	1775			
(υ	se as m	any sheets a	s necessary)	Examiner Name	Aaron Austin			
Sheet	1	of	1	Attorney Docket No.	00807-03			
			U. S.	PATENT DOCUM	ENTS			
xaminer	Cite	Doc	ument Number	Publication Date	. Name of Patentee or	Pages, Columns, Lines, W		
ritjals*	No. 1	Number	-Kind Code* (fi known)	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Rele Figures Appear	vant	
/AA/	. 1	us-	6684943	2/3/2004	Dobbs	Entire document		
				·				
	i					•		
		T. T						
- "					·	•		
		1	,					
			1					
		<del></del>		[				
						· · · · · · · · · · · · · · · · · · ·	-	
	<u> </u>							
-								
	<del>                                     </del>		<u> </u>	1		•		
	1	<u> </u>	FORFI	GN PATENT DOC	IMENTS			
xaminer	Cite	Foreig	m Patent Document	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where	T	
nitials*	No. ¹		ode* Number* Kind Code*	MM-DD-YYYY	Applicant of Cited Document	Relevant Passages or Relevant Figures Appear	T.5	
xaminer		//	a Avetin/			00/00/0007		
lignature		IOTSA	n Austin/		Date Considered	08/02/2007		

"EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered, include copy of this form with next communication to applicant. 'Applicant's unique citation number (optional). 'See Kind Codes of USPTO Patent Documents at www.uspto.gov or MPEP 901.04. 'Enter office that issued the document, by the two-latter code (WIPO Standard ST.3). 'For Japanese patent document, the Indication of the year of the reign of the Emperor must precede the serial number of the patent document. 'Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible.

DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents, P. Q. Box 1450, Alexandria, VA 22313-1450.

<sup>&</sup>lt;sup>8</sup>Applicant is to place a check mark here if English language translation is attached. This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. The collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual cas comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450.

he Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

obstitute for form 1449A/PTO

MAY 0 9 2007

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/522,068
Filing Date 01/21/2005
First Named Inventor Haydn N.G. Wadley
Art Unit 1775
Examiner Name Aaron Austin

(Use as many sheets as necessary)

Sheet 1 of 7 Attorney Docket Number 00807-03

Examiner	Cite	December Manual	U. S. PATENT		
Initials*	No.1	Document Number  Number-Kind Code <sup>2 (I known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/AA/	1	US- 7211348	5/1/2007	Wadley	Entire document
ĺ	2	US- 6740381	5/25/2004	Day	Entire document
	3	US-6739104	5/25/2004	Tokonabe	Entire document
	4	US- 6676797	1/13/2004	Tippett	Entire document
	5	US- 6644535	11/11/2003	Wallach	Entire document
	6	US- 6579811	6/17/2003	Narwankar	Entire document
	7	us- 6284346	9/4/2001	Sheridan	Entire document
	8	us- 6228744	5/8/2001	Levine	Entire document
	9	us- 6207256	3/27/2001	Tashiro	Entire document
	10	us- 6204200	3/20/2001	Shieh	Entire document
	11	<sup>US-</sup> 6200664	3/13/2001	Figge	Entire document
	12	<sup>US-</sup> 6189286	2/20/2001	Seible	Entire document
	13	<sup>US-</sup> 6176964	1/23/2001	Parente	Entire document
	14	<sup>US-</sup> 6175495	1/16/2001	Batchelder	Entire document
	15	<sup>US-</sup> 6170560	1/9/2001	Daily	Entire document
	16	<sup>US-</sup> 6082443	7/4/2000	Yamamoto	Entire document
	17	<sup>US-</sup> 6080495	6/27/2000	Wright	Entire document
/AA/	. 18	<sup>US-</sup> 6077370	6/20/2000	Solvstev	Entire document

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T°			
*******************************			***************************************		•••••••••••••••••••••••••••••••••				
	***********		***************************************	***************************************	***************************************				

<u></u>			
Examiner	/Aaron Austin/	Date	
Signature	/Aaron Austin/	Considered	08/02/2007
		00113146160	00/02/2007

EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number

Substitute for form 1449A/PTO

MAY 0 9 2007

Sheet

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

E T Application Number 10/522,068

Filing Date 01/21/2005

First Named Inventor Haydn N.G. Wadley

Art Unit 1775

Examiner Name

Complete if Known

(Use as many sheets as necessary)

2 of 7

Attorney Docket Number 00807-03

			U. S. PATENT		
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
<u>/AA/</u>	19.	<sup>US</sup> 6076324	6/20/2000	Daily	Entire document
	20	us-6003591	12/21/1999	Campbell	Entire document
	21	<sup>US</sup> 5972468	10/26/1999	Welch	Entire document
	22	<sup>US</sup> 5972146	10/26/1999	Fantino	Entire document
	23	us 5970843	10/26/1999	Strasser	Entire document
	24	us 5962150	10/5/1999	Priluck	Entire document
	25	us 5943543	8/24/1999	Uchida	Entire document
	26	us 5924459	7/20/1999	Evans	Entire document
	27	us <sup>1</sup> 5890268	4/6/1999	Mullen	Entire document
	28	US-5888912	3/30/1999	Piemonte	Entire document
	29	US-5888609	3/30/1999	Karttunen	Entire document
	30	<sup>US-</sup> 5817391	10/6/1998	Rock	Entire document
	31	<sup>US-</sup> 5808866	9/15/1998	Porter .	Entire document
	32	us-5773121	6/30/1998	Meteer	Entire document
	33	US-5772821	6/30/1998	Yasui	Entire document
$\Delta L$	34	us-5771488	6/30/1998	Honkala	Entire document
<b>V</b>	35	<sup>US-</sup> 5741574	4/21/1998	Boyce	Entire document
/AA/	36	US-5698282	12/16/1997	DeMeyer	Entire document

	FOREIGN PATENT DOCUMENTS									
Examiner Initials*	Cite No.1	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages	٠.				
		Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)			or Relevant Figures Appear	$\vdash$				
*******************			***************************************	***************************************	••••••					
			************************	***************************************	************************************	Ш				
***************************************	••••••	······································	,	***************************************	ATTOTTO CONTROL CONTRO					
	.,	·	***********************		***************************************					

4				
1	Examiner		Date	
ì	Signature	/Aaron Austin/		08/02/2007
ı	Olgholaid	/Adion Austin/	Considered	00/02/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

**Attorney Docket Number** 

er the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

MAY 0 9 2007

#### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/522,068

Filing Date 01/21/2005

First Named Inventor Haydn N.G. Wadley

Art Unit 1775

Examiner Name Aaron Austin

00807-03

(Use as many sheets as necessary)

Sheet 3 of 7

			U.S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/AA/	37	us- 5679467	10/21/1997	Priluck	Entire document
1	38	US- 5677029	10/14/1997	Prevorsek	Entire document
	39	US- 5673571	10/7/1997	Moss	Entire document
	40	US- 5656984	8/12/1997	Paradis	Entire document
	41	us- 5654518	8/5/1997	Dobbs	Entire document
	42	us- 5642776	7/1/1997	Meyer	Entire document
	43	US- 5624622	4/29/1997	Boyce	Entire document
	44	us- 5605628	2/25/1997	Davidson	Entire document
	45	US-5598632	2/4/1997	Camarda	Entire document
	46	<sup>US-</sup> 5591162	1/7/1997	Fletcher	Entire document
	47	<sup>US-</sup> 5547737	8/20/1996	Evans	Entire document
	48	<sup>US-</sup> 5534314	7/9/1996	Wadley	Entire document
	49	us- 5527590	6/18/1996	Priluck	Entire document
	50	<sup>US-</sup> 5527588	6/18/1996	Camarda	Entire document
	51	<sup>US-</sup> 5511974	4/30/1996	Gordon	Entire document
$\Delta L$	52	<sup>US-</sup> 5503887	4/2/1996	Diaz	Entire document
<b>V</b>	53	<sup>US-</sup> 5472769	12/5/1995	Goerz	Entire document
/AA/	54	<sup>US-</sup> 5471905	12/5/1995	Martin	Entire document

FOREIGN PATENT DOCUMENTS									
Cite No. <sup>1</sup>	Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	76				
		***************************************		***************************************					
		****************	***************************************	***************************************					
		> 1 = 0 T E P T C & 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2 + 2		***************************************	_				
		***************************************	***************************************		_				
	No.1	Cite Foreign Patent Document	Cite No.1 Foreign Patent Document Publication Date MM-DD-YYYY  Country Code3 Number 4 Kind Code5 (if known)	Cite No.1 Foreign Patent Document Publication Date MM-DD-YYYY Publication Date MM-DD-YYYY Applicant of Cited Document	Cite No. 1 Country Code 3 Number 4 Kind Code 5 (if known)  Publication Date MM-DD-YYYY  Publication Date Applicant of Cited Document View Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear				

Examiner		Date	
Signature	/Aaron Austin/		00/02/2007
0.5/.0.0.0		Considered	l 08/02/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

er the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

MAY 0 9 2007

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Application Number 10/522,068
Filing Date 01/21/2005
First Named Inventor Haydn N.G. Wadley
Art Unit 1775
Examiner Name Aaron Austin

(Use as many sheets as necessary)

Sheet 4 of 7

Attorney Docket Number 00807-03

		•	U. S. PATENT	DOCUMENTS	
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
/AA/	55	us- <u>5465760</u>	11/14/1995	Mohamed	Entire document
1	56	us- 5455096	10/3/1995	Toni	Entire document
	57	US- 5431800	7/11/1995	Kirchhoff	Entire document
	58	us- 5424139	6/13/1995	Shuler	Entire document
	59	US- 5417686	5/23/1995	Peterson	Entire document
	60	us- 5401583	3/28/1995	Stacher	Entire document
	61	<sup>US-</sup> 5360500	11/1/1994	Evans	Entire document
	62	US- 5349893	9/27/1994	Dunn	Entire document
	63	<sup>US-</sup> 5312660	5/17/1994	Morris	Entire document
	64	<sup>us-</sup> 5309457	5/3/1994	Minch	Entire document
	65	<sup>US-</sup> 5308669	5/3/1994	Prucher	Entire document
	66	<sup>US-</sup> 5282861	2/1/1994	Kaplan	Entire document
	67	us- 5266279	11/30/1993	Haerle	Entire document
	68	us- 5224519	7/6/1993	Farley	Entire document
	69	us- 5219020	6/15/1993	Akachi	Entire document
$\Delta L$	·70-	us- 5217770	6/8/1993	Morris	Entire document
<u> </u>	71	<sup>. US-</sup> 5190539	3/2/1993	Fletcher	Entire document
/AA/	72	<sup>US-</sup> 5181549	1/26/1993	Shapovalov	Entire document

	FOREIGN PATENT DOCUMENTS								
Examiner Initials*	Cite No. <sup>1</sup>	Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T <sup>©</sup>			
-4100000000000000000			••••••••••••••						
			***************	***************************************	***************************************				
***************************************		•••••••••••••••••••••••••••••••••••••••			***************************************				
			*******************************		***************************************				

1	Examiner	1	Date	
ı		I /Aaron Austin/		08/02/2007
ı	Signature	/Aaron Austin/	l Considered I	UO/UZIZUU/

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

MAY 0 9 2007

# INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 5 of 7

Complete if Known				
Application Number	10/522,068			
Filing Date	01/21/2005			
First Named Inventor	Haydn N.G. Wadley			
Art Unit	1775			
Examiner Name	Aaron Austin			
Attorney Docket Number	00807-03			

U. S. PATENT DOCUMENTS							
Examiner Initials*	Cite No. <sup>1</sup>	Document Number  Number-Kind Code <sup>2 (f known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
/AA/	73	<sup>us.</sup> 5179043	01/12/1993	Weichold	Entire document		
	74	<sup>US-</sup> 5176641	01/05/1993	Idriss	Entire document		
	· 75	us- 5137058	8/11/1992	Anahara	Entire document		
	76	US- 5110661	5/1/1992	Groves	Entire document		
	77	US- 5102723	4/7/1992	Pepin	Entire document		
	78	us- 5070673	12/10/1991	Weisse	Entire document		
	79	us- 5040966	8/20/1991	Weisse	Entire document		
	80	us. 5011638	4/30/1991	Pinkhasov	Entire document		
ļ	81	US- 5002378	3/26/1991	Colarusso	Entire document		
	82	<sup>US-</sup> 4968367	11/6/1990	Diderich	Entire document		
	83	<sup>US-</sup> 4955135	11/9/1990	Pinkhasov	Entire document		
	84	<sup>US-</sup> 4923544	5/8/1990	Weisse	Entire document		
	85	US-4918281	4/17/1990	Blair	Entire document		
	86	<sup>US-</sup> 4916027	4/10/1990	Delmundo	Entire document		
	87	us. 4883116	11/28/1989	Seidenberg	Entire document		
	88	<sup>US</sup> 4859541	8/22/1989	Maxeiner	Entire document		
V	89	<sup>US</sup> 14819719	4/11/1989	Grote	Entire document		
/AA/	90	<sup>US-</sup> 4765396	08/23/1988	Seidenberg	Entire document		

		FOREIGN F	ATENT DOCL	IMENTS		
Examiner Initials*	Cite No.1	Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
~*************************************						
	********		***************************************	·	•••••••••••••••••••••••••••••••••••••••	
			***************************************			
					***************************************	

			The state of the s
Examiner		Date	
Signature	/Aaron Austin/	Considered	l 08/02/2007
(	// tar of r radiin	00110100100	00/02/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 809. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/522,068

Filing Date 01/21/2005

First Named Inventor Haydn N.G. Wadley

Art Unit 1775

Examiner Name Aaron Austin

Attomey Docket Number 00807-03

(Use as many sheets as necessary)

Substitute for form 1449A/PTO

MAY 0 9 2007

Sheet 6 of 7

U. S. PATENT DOCUMENTS							
Examiner Initials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (fl. known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear		
<u>/AA/</u>	91	us-4758299	7/19/1988	Burke	Entire document		
	92	us-4756943	7/12/1988	Koletzko	Entire document		
	93	US-4687702	8/18/1987	Monsees	Entire document		
	94	us-4639388	1/27/1987	Ainsworth	Entire document		
	95	us 4632716	12/30/1986	Smith	Entire document		
	96	usl 4625710	12/2/1986	Harada	Entire document		
	97	US-4531511	7/30/1985	Hochberg	Entire document		
	98	US-4530197	7/23/1985	Rainville	Entire document		
	99	<sup>US-</sup> 4529640	7/1/1985	Brown	Entire document		
	100	<sup>US-</sup> 4522860	6/11/1985	Scott	Entire document		
	101	us-4469077	9/4/1984	Wooldridge	Entire document		
	102	us-4453367	6/12/1984	Geyer	Entire document		
	103	<sup>US-</sup> 4450338	5/22/1984	Conn	Entire document		
	104	<sup>US-</sup> 4291732	9/19/1981	Artzer	Entire document		
	105	<sup>US-</sup> 4223053	9/16/1980	Brogan	Entire document		
$\Delta L$	106	<sup>US-</sup> 4194255	3/25/1980	Poppe	Entire document		
	107	<sup>US-</sup> 4130233	12/19/1978	Chisholm	Entire document		
/AA/	108	us-4067956	1/10/1978	Franklin	Entire document		

	FOREIGN PATENT DOCUMENTS								
Examiner Ci Initials* N		Foreign Patent Document  Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>3</sup> (if known)	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T⁰			
, ,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	***************************************								
				***************************************					
	l	······							
		· _			***************************************				

Examiner Signature	/Aaron Austin/	Date Considered	08/02/2007
*EVARAINED.			OUIVEILUUI

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for form 1449A/PTO

MAY 0 9 2007

### INFORMATION DISCLOSURE STATEMENT BY APPLICANT

Complete if Known

Application Number 10/522,068

Filing Date 01/21/2005

First Named Inventor Haydn N.G. Wadley

Art Unit 1775

Examiner Name Aaron Austin

Attorney Docket Number 00807-03

(Use as many sheets as necessary)

Sheet 7 of 7

Examiner				DOCUMENTS		
nitials*	Cite No.1	Document Number  Number-Kind Code <sup>2 (fl known)</sup>	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
/AA/	109	us 4038440	7/26/1976	King	Entire document	
	110	us 4037751	7/26/1977	Miller	Entire document	
	111	us-4027476	6/7/1997	Schmidt	Entire document	
	112	us 4019540	4/26/1977	Holman	Entire document	
	113	us 4001478	1/4/1977	King	Entire document	
	114	us 3996082 ·	12/7/1976	Leatherman	Entire document	
	115	us-3971072	7/27/1976	Armellino	Entire document	
	116	<sup>US</sup> -3869778	3/11/1975	Yancey	Entire document	
	117	<sup>US</sup> 3857217	12/31/1974	Reps	Entire document	
	118	us 3795288	3/5/1974	Pall	Entire document	
	119	<sup>US</sup> 3783969	1/8/1974	Pall	Entire document	
	120	<sup>US</sup> 3298402	1/17/1967	Hale	Entire document	
	121	<sup>US-</sup> 2789076	4/16/1957	Frieder	Entire document	
	122	us-2481046	9/6/1949	Scurlock	Entire document	
V	123	us-2288104	6/30/1942	Pasquier	Entire document	
/AA/	124	<sup>US-</sup> 1154254	9/21/1915	Lachman	Entire document	
		US-				

		FOREIGN I	JMENTS			
Examiner	Cite	T CONC	Publication Date	Name of Patentee or	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	
Initials*	No.'	Country Code <sup>3</sup> Number <sup>4</sup> Kind Code <sup>5</sup> (if known)	MM-DD-YYYY	Applicant of Cited Document		T°
/AA/	125	JP 01147294	06/08/1989	Yasunobu	Entire document	
	<u> </u>				***************************************	
		·		*	***************************************	П
				***************************************	***************************************	П

•				
ſ	Examiner		Date	
1	Signature	/ A - u - u - A - u - A lu - /		00/00/000
1	Signature	/Aaron Austin/	I Considered	08/02/2007
ı		// taren/ taethii		1 00/02/2007

\*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant. 1 Applicant's unique citation designation number (optional). 2 See Kinds Codes of USPTO Patent Documents at <a href="https://www.uspto.gov">www.uspto.gov</a> or MPEP 901.04. 3 Enter Office that issued the document, by the two-letter code (WIPO Standard ST.3). 4 For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. 5 Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST.16 if possible. 6 Applicant is to place a check mark here if English language Translation is attached.

PTO/SB/08b (08-03) Approved for use through 06/30/2006. OMB 0651-0031

U.S. Patent and Trademark Office; U.S. DEPARTMENT OF COMMERCE the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for fo	rm 14498/PTO			Complete if Known		
		•		Application Number	10/522,068	
	MATION DI			Filing Date	1/21/2005	
STATE	MENT BY	APPLI	CANT	First Named Inventor	Haydn N. G. Wadley	
		_		Art Unit	1775	
	lse as many sheets as	necessary)		Examiner Name	Aaron Austin	
Sheet	1 .	of		Attorney Docket Number	00807-03	

			NON PATENT LITERATURE DOCUMENTS	
Examiner Initials*		Cite No.1	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	Γ²
/AA/		<b>A</b> -	WADLEY, "Manufacture of Cellular Metals: An Overview of Concepts for Stochastic and Periodic Materials," MetFoam 2001, (June 18, 2001).	
		В	UNKNOWN, "DUOCEL Foam Metal for Semiconductor Applications," ERG Materials and Aerospace Corporation website,	
		С	UNKNOWN, ERG Materials and Aerospace Corporation website	
		D	UNKNOWN, "Reticulated Vitreous Carbon," ERG Materials and Aerospace Corporation website	
		E	UNKNOWN, "Properties of DUOCEL Silicon Carbide Foams," ERG Materials and Aerospace Corporation website	
		F	BOOMSMA, "Metal Foams for Compact High Performance Heat Exchangers," Laboratory of Thermodynamics in Emerging Technologies, website 2001	
		G	GIBSON, "Metallic Foams: Structure, Properties and Applications," ICTAM 2000, (August 28, 2000).	
		Н	UNKNOWN, "Directed Vapor Deposition of Ultralightweight Metal Foams," UVA website	
		I	UNKNOWN, "Micro Heat Exchangers," Institut for Mikrotechnik Mainz GmbH, (February 1, 1998).	
	AA/	J.	NAANES, "Grant funds University heat-exchanger project," The Reveille, Louisiana State University, (November 9, 1999).	

		<del> </del>	
Examiner Signature	/Aaron Austin/	Date Considered	.08/02/2007

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant,

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for f	orm 1449B/PTO			Complete if Known			
	·			Application Number	10/522,068		
	MATION DIS			Filing Date	1/21/2005		
STATE	EMENT BY A	APPLI	CANT	First Named Inventor	Haydn N. G. Wadley		
				Art Unit	1775		
	Use as many sheets as	necessary,	)	Examiner Name	Aaron Austin		
Sheet	2	of	3	Attorney Docket Number	00807-03		

		NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.			
/AA/	K	UNKNOWN, "Solid Sorption Machines with Heat Pipe Heat Exchangers for Heat Transfer Enhancement and Thermal Control," U.S. Civilian Research & Development Foundation website, Abstract #BE1-107			
	L	ITOH, "Itoh's Micro Heat Pipe Home Page," Itoh's website,			
	М	UNKNOWN, "A High Performance Heat Sink Using Micro Heat-Pipes Now Available at Low Price," Furukawa Electric website, (January 25, 2000).			
	N	UNKNOWN, "The Application of Micro-Heat-Pipe in a Portable Electronic System," Industrial Technology Research Institute, Vol. 7 (Winter), (1996).			
	0	UNKNOWN, "Thermal Management - Heat Pipes," Fujikura Europe Limited website, United Kingdom.			
	P	UNKNOWN, "Thermal Management - Heat Sinks," Fujikura Europe Limited website, United Kingdom.			
	Q	QUEHEILLALT, ET AL., "Electron beam - directed vapor deposition of multifunctional structures," Mat. Res. Soc. Symp. Proc., Vol. 672, (November 12, 2001).	1		
	R	SEOK HWAN MOON, ET AL., "Experimental study on the thermal performance of micro-heat pipe with cross-section of polygon," Microelectronics Reliability 44 (2004) 315-321, (February 12, 2003).			
	S	SYPECK, "Multifunctional microtruss laminates: Textile synthesis and properties," Mat. Res. Soc. Symp. Proc. Vol. 672 2001 Materials Research Society			
/AA/	Т	EVANS, "Lightweight materials and structures," MRS Bulletin Oct 2001			

[	/Agran Augtin/	l <b>_</b> .	1
Examine		Date	08/02/2007
Signature		Considered	00/02/2007

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.

This collection of information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it contains a valid OMB control number.

Substitute for	form 1449B/PTO			Complete if Known		
				Application Number	10/522,068	
INFOR	RMATION D	ISCLOS	URE	Filing Date	1/21/2005	
STATE	EMENT BY	<b>APPLIC</b>	ANT	First Named Inventor	Haydn N. G. Wadley	
	•			Art Unit	1775	
	Use as many sheets	as necessary)		Examiner Name	Aaron Austin	
Sheet	: 3	of	3	Attorney Docket Number	00807-03	

NON PATENT LITERATURE DOCUMENTS						
Examiner Initials*	Cite No.1					
/AA/	U	L. J. GIBSON, "Mechanical Behavior of Metallic Foams," Annu. Rev. Matter. Sci., p. 191-227, 2000.				
100444444444444444444444444444444444444	**************					
·	*****************					
***************************************	**************					
***************************************	***************************************	· · · · · · · · · · · · · · · · · · ·	. (*******			
	•••••••					
Examiner Signature		/Aaron Austin/ Date Considered 08/02/2007				

Examiner Signature	/Aaron Austin/	Date Considered	08/02/2007

<sup>\*</sup>EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Applicant's unique citation designation number (optional). 2 Applicant is to place a check mark here if English language Translation is attached.
This collection of Information is required by 37 CFR 1.97 and 1.98. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 2 hours to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.